

Science Toolkit: Grade 7 Objective 3.E.1.b

Student Handout: Science: Grade 7 Objective 3.E.1.b

Standard 3.0 Life Science

Topic E. Flow of Matter and Energy

Indicator 1. Explain that the transfer and transformation of matter and energy links organisms to one another and to their physical setting.

Objective b. Cite evidence from research and observations that organisms that eat plants or animals break down what they have consumed (food) to produce the materials and energy they need to survive or store for later use.

Selected Response (SR) Item

Question

Use the information below to answer the following question.

The gypsy moth was accidentally brought into the United States. The caterpillars of these moths eat the leaves of hardwood trees. Eating these leaves decreases the growth of the trees and may cause the trees to die. A gypsy moth and gypsy moth caterpillar are pictured below.



Gypsy Moth



Gypsy Moth Caterpillar

Why do gypsy moth caterpillars eat leaves?

- A. to destroy the hardwood tree
- B. to extract energy for growth
- C. to obtain trapped oxygen
- D. to produce their own food

Correct Answer

B. to extract energy for growth

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